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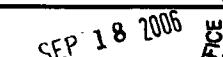
A circular stamp with a square logo containing the number 70. The text 'DIP-E' is at the top, '1402' is on the right, '1 SEP 18 2006' is in the center, and 'OFFICE' is on the bottom right.

Substitute for form 1449A/B/PTO

**INFORMATION DISCLOSURE
STATEMENT BY APPLICANT**

(Use as many sheets as necessary)

Sheet 1 of 8

Substitute for form 1449A/B/PTO		Complete if Known	
INFORMATION DISCLOSURE STATEMENT BY APPLICANT <small>(Use as many sheets as necessary)</small>		Application Number	10/568,998
		Filing Date	Feb. 16, 2006
		First Named Inventor	Sfeir et al.
		Group Art Unit	Unassigned 1652
		Examiner Name	Unassigned T. Saidha
		Attorney Docket Number	250030
Sheet	1	of	8
Client Reference No. 00836			

U.S. PATENT DOCUMENTS

FOREIGN PATENT DOCUMENTS

OTHER - NON PATENT LITERATURE DOCUMENTS

Examiner Initials	Doc. No.	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number (s), publisher, city and/or country where published.	Translation	
			Yes	No**
	A O	ADAIR et al., "Targeted Homologous Recombination at the Endogenous Adenine Phosphoribosyltransferase Locus in Chinese Hamster Cells," <i>Proc. Natl. Acad. Sci. USA</i> , 86(12): 4574-4578 (June 1989)		
	A P	ADAMS et al., "Regulation of Development and Differentiation by the Extracellular Matrix," <i>Development</i> , 117(4): 1183-1198 (1993)		
	A Q	ADDADI et al., "Interactions Between Acidic Proteins and Crystals: Stereochemical Requirements in Biominerization," <i>Proc. Natl. Acad. Sci. USA</i> , 82(12): 4110-4114 (June 1985)		
	A R	ADDADI et al., "On How Proteins Interact with Crystals and Their Effect on Crystal Formation," <i>Kardiologie</i> , 90(3): 92-98		
	A S	ANSELME, "Osteoblast Adhesion on Biomaterials," <i>Biomaterials</i> , 21(7): 667-681 (April 2000)		

ALL REFERENCES CONSIDERED EXCEPT WHERE LINED THROUGH. /T.S./

	A T	APPLIED BIOSYSTEMS, "ABI Prism 7700 Sequence Detection System," <i>User Bulletin #2: 1-36</i> (December 11, 1997)		
	A U	ATMANI et al., "Identification of Proteins Extracted from Calcium Oxalate and Calcium Phosphate Crystals Induced in the Urine of Healthy and Stone Forming Subjects," <i>Urol. Res.</i> 26(3): 201-207 (1998)		
	A V	BARBOZA et al., "Potential of Recombinant Human Bone Morphogenetic Protein-2 in Bone Regeneration," <i>Implant Dentistry</i> , 8(4): 360-367 (1999)		
	A W	BIANCO et al., "Bone Sialoprotein (BSP) Secretion and Osteoblast Differentiation: Relationship to Bromodeoxyuridine Incorporation, Alkaline Phosphatase, and matrix Deposition," <i>The Journal of Histochemistry and Cytochemistry</i> , 41(2): 183-191 (February 1993)		
	A X	BIANCO et al., "Cripto-1 Activates Nodal- and ALK4-Dependent and -Independent Signaling Pathways in Mammary Epithelial Cells," <i>Molecular and Cellular Biology</i> , 22(8): 2586-2597 (April 2002)		
	A Y	BISSELL et al., "How Does the Extracellular Matrix Direct Gene Expression?" <i>Journal of Theoretical Biology</i> , 99(1): 31-68 (November 7, 1982)		
	A Z	BISSELL et al., "The Influence of Extracellular Matrix on Gene Expression: Is Structure the Message?" <i>Journal of Cell Science, Supplement</i> 8: 327-343 (1987)		
	B A	BODANSKY, "Reactivity and Structure Concepts in Organic Chemistry," <i>Principles of Peptide Synthesis</i> , 16: 1-307 (Hafner et al., eds.) (Springer-Verlag, Berlin 1984)		
	B B	BODEN et al., "The Use of rhBMP-2 in Interbody Fusion Cages," <i>Spine</i> 25(3): 376-381 (February 1, 2000)		
	B C	BOLANDER et al., "Osteonectin cDNA Sequence Reveals Potential Binding Regions for Calcium and Hydroxyapatite and Shows Homologies With Both a Basement Membrane Protein (SPARC) and a Serine Proteinase Inhibitor (Ovomucoid)," <i>Proc. Natl. Acad. Sci. USA</i> , 85(8): 2919-2923 (May 1988)		
	B D	BOSKEY, "Hydroxyapatite Formation in a Dynamic Collagen Gel System: Effects of Type I Collagen, Lipids, and Proteoglycans," <i>The Journal of Physical Chemistry</i> , 93: 1628-1633 (1989)		
	B E	BOSKEY et al., "Concentration-Dependent Effects of Dentin Phosphophoryn in the Regulation of In Vitro Hydroxyapatite Formation and Growth," <i>Bone and Mineral</i> , 11(1): 55-65 (1990)		
	B F	BOSKEY et al., "The Effect of Phosphatidylserine on In Vitro Hydroxyapatite Growth and Proliferation," <i>Calcified Tissue International</i> , 49(3): 193-196 (September 1991)		
	B G	BOYNE et al., "A Feasibility Study Evaluating rhBMP-2/Absorbable Collagen Sponge for Maxillary Sinus Floor Augmentation," <i>The International Journal of Periodontics & Restorative Dentistry</i> , 17(1): 11-25 (February 1997)		
	B H	BROWN et al., "Where the Outside Meets the Inside: Integrins as Activators and Targets of Signal Transduction Cascades," <i>Immunology Letters</i> , 54(2-3): 189-193 (December 11, 1996)		
	B I	BUTLER, "The Nature and Significance of Osteopontin," <i>Connective Tissue Research</i> , 23(2-3): 123-136 (1989)		
	B J	BYERS et al., "Cell-Type-Dependent Up-Regulation of In Vitro Mineralization After Overexpression of the Osteoblast-Specific Transcription Factor Runx2/Cbfa1," <i>Journal of Bone and Mineral Research</i> , 17(11): 1931-1944 (November 2002)		
	B K	CALDERWOOD et al., "Integrins and Actin Filaments: Reciprocal Regulation of Cell Adhesion and Signaling," <i>The Journal of Biological Chemistry</i> , 275(30): 22607-22610 (July 28, 2000)		
	B L	CAMPBELL et al., "Staining of the CA2+ -Binding Proteins, Calsequestrin, Calmodulin, Troponin C, and S-100, with the Cationic Carbocyanine Dye 'Stainsall'," <i>The Journal of Biological Chemistry</i> , 258(18): 11267-11273 (September 25, 1983)		
	B M	CAPECCHI, "Altering the Genome by Homologous Recombination," <i>Science</i> , 244(4910): 1288-1292 (June 16, 1989)		
	B N	CHEN et al., "Localization of Bone Sialoprotein (BSP) Expression to Sites of Mineralized Tissue Formation in Fetal Rat Tissues by In Situ Hybridization," <i>Matrix</i> , 11(2): 133-143 (1991)		
	B O	CHEN et al., "Integrin-mediated Cell Adhesion Activates Mitogen-activated Protein Kinases," <i>The Journal of Biological Chemistry</i> , 269(43): 26602-26605 (October 28, 1994)		
	B P	COCHRAN et al., "Evaluation of Recombinant Human Bone Morphogenetic Protein-2 in Oral Applications Including the Use of Endosseous Implants: 3-Year Results of a Pilot Study in Humans," <i>Journal of Periodontology</i> , 71(8): 1241-1257 (August 2000)		

ALL REFERENCES CONSIDERED EXCEPT WHERE LINED THROUGH. /T.S./

	B Q	COMPTON et al., "The Conformation of T4 Bacteriophage Dihydrofolate Reductase from Circular Dichroism," <i>The Journal of Biological Chemistry</i> , 262(27): 13039-13043 (September 25, 1987)	
	B R	COOLEY et al., "Applications of Ink-Jet Printing Technology to BioMEMS and Microfluidic Systems," <i>Proceedings of SPIE</i> , 177-188 (October 2001)	
	B S	DAHL et al., "Type I Collagen-Phosphophoryn Interactions: Specificity of the Monomer-Monomer Binding," <i>Journal of Structural Biology</i> , 123(2): 162-168 (October 1998)	
	B T	DAMSKY et al., "Signal Transduction by Integrin Receptors for Extracellular Matrix: Cooperative Processing of Extracellular Information," <i>Current Opinion in Cell Biology</i> , 4(5): 772-781 (1992)	
	B U	DAMSKY, "Extracellular Matrix-Integrin Interactions in Osteoblast Function and Tissue Remodeling," <i>Bone</i> , 25(1): 95-96 (July 1999)	
	B V	DELUCA et al. "Parenteral Drug-Delivery Systems," <i>Pharmaceutics and Pharmacy Practice</i> , (Banker et al., eds.), 238-250 (J.B. Lippincott Company, Philadelphia, PA, 1982)	
	B W	DIMUZIO et al., "Phosphophoryns-Major Noncollagenous Proteins of Rat Incisor Dentin," <i>Calcified Tissue Research</i> , 25: 169-178 (1978)	
	B X	D'SOUZA et al., "Gene Expression Patterns of Murine Dentin Matrix Protein 1 (Dmp1) and Dentin Sialophosphoprotein (DSPP) Suggest Distinct Developmental Functions In Vivo," <i>Journal of Bone and Mineral Research</i> , 12(12): 2040-2049 (December 1997)	
	B Y	DUBREE et al., "Gene Expression in Periodontal Ligament Cells," <i>Journal of Dental Research</i> , 83(Abstract 1075): 1 (2004)	
	B Z	DUCY et al., "Osf2/Cbfa1: A Transcriptional Activator of Osteoblast Differentiation," <i>Cell</i> , 89(5): 747-754 (May 30, 1997)	
	C A	DUCY et al., "A Cbfa1-Dependent Genetic Pathway Controls Bone Formation Beyond Embryonic Development," <i>Genes & Development</i> , 13(8): 1025-1036 (April 15, 1999)	
	C B	DUONG et al., "Integrins and Signaling in Osteoclast Function," <i>Matrix Biology</i> , 19(2): 97-105 (2000)	
	C C	EK-RYLANDER et al., "Dephosphorylation of Osteopontin and Bone Sialoprotein by Osteoclastic Tartrate-Resistant Acid Phosphatase," <i>The Journal of Biological Chemistry</i> , 269(21): 14853-14856 (May 27, 1994)	
	C D	EVANS et al., "Phosphophoryn, an 'Acidic' Biomineralization Regulatory Protein: Conformational Folding in the Presence of Cd (II)," <i>Biopolymers</i> , 34(7): 1359-1375 (July 1994)	
	C E	FASHENA et al., "Signalling by Adhesion Receptors," <i>Nat. Cell. Biol.</i> 2(12): E225-E229 (2000)	
	C F	FENG et al., "Genomic Organization, Chromosomal Mapping, and Promoter Analysis of the Mouse Dentin Sialophosphoprotein *Dspp) Gene, Which Codes for Both Dentin Sialoprotein and Dentin Phosphoprotein," <i>The Journal of Biological Chemistry</i> , 273(16): 9457-9464 (April 17, 1998)	
	C G	FLOTOW et al., "Phosphate Groups as Substrate Determinants for Casein Kinase I Action," <i>The Journal of Biological Chemistry</i> , 265(24): 14264-14269 (August 25, 1990)	
	C H	FRANK et al., "Real-Time Quantitative RT-PCR Analysis of Human Bone Marrow Stromal Cells During Osteogenic Differentiation In Vitro," <i>Journal of Cellular Biochemistry</i> , 85(4): 737-746 (2002)	
	C I	GALLEA et al., "Activation of Mitogen-Activated Protein Kinase Cascades Is Involved in Regulation of Bone Morphogenetic Protein-2-Induced Osteoblast Differentiation in Pluripotent C2C12 Cells," <i>Bone</i> , 28(5): 491-498 (May 2001)	
	C J	GEORGE et al., "Characterization of a Novel Dentin Matrix Acidic Phosphoprotein," <i>The Journal of Biological Chemistry</i> , 268(17): 12624-12630 (June 15, 1993)	
	C K	GEORGE et al., "The Carboxyl-Terminal Domain of Phosphophoryn Contains Unique Extended Triplet Amino Acid Repeat Sequences Forming Ordered Carboxyl-Phosphate Interaction Ridges That May Be Essential in the Biomineralization Process," <i>The Journal of Biological Chemistry</i> , 271(51): 32869-32873 (December 20, 1996)	
	C L	GIANCOTTI et al., "Integrin Signaling," <i>Science</i> , 285(5430): 1028-1032 (August 13, 1999)	
	C M	GIANNOBILE et al., "Platelet-Derived Growth Factor (PDGF) Gene Delivery for Application in Periodontal Tissue Engineering," <i>Journal of Periodontology</i> , 72(6): 815-823 (June 2001)	
	C N	GLIMCHER, "Recent Studies of the Mineral Phase in Bone and its Possible Linkage to the Organic Matrix by Protein-Bound Phosphate Bonds," <i>Philosophical Transactions of the Royal Society of London</i> , 304(1121): 479-508 (February 13, 1984)	

ALL REFERENCES CONSIDERED EXCEPT WHERE LINED THROUGH. /T.S./

	C O	GLOBUS et al., "Integrin-Extracellular Matrix Interactions in Connective Tissue Remodeling and Osteoblast Differentiation," <i>ASGSB Bulletin</i> , 8(2): 19-28 (October 1995)		
	C P	GORI et al., "Differentiation of Human Marrow Stromal Precursor Cells: Bone Morphogenetic Protein-2 Increases OSF2/CBFA1, Enhances Osteoblast Commitment, and Inhibits late Adipocyte Maturation," <i>Journal of Bone and Mineral Research</i> , 14(9): 1522-1535 (September 1999)		
	C Q	GORTER DE VRIES et al., "Ultrastructural Localization of Dentine Phosphoprotein in Rat Tooth Germs by Immunogold Staining," <i>Histochemistry</i> , 91(1): 69-75 (1989)		
	C R	GRONTHOS et al., "Integrin Expression and Function on Human Osteoblast-like Cells," <i>Journal of Bone and Mineral Research</i> , 12(8): 1189-1197 (August 1997)		
	C S	GURA et al., "Identification of Specific Calcium-Binding Noncollagenous Proteins Associated with Glutaraldehyde-Preserved Bovine Pericardium in the Rat Subdermal Model," <i>Journal of Biomedical Materials Research</i> , 35(4): 483-495 (1997)		
	C T	HANKS et al., "Cloned 3T6 Cell Line from CD-1 Mouse Fetal Molar Dental Papillae," <i>Connective Tissue Research</i> , 37(3-4): 233-249 (1998)		
	C U	HANKS et al., "Dentin-Specific Proteins in MDPC-23 Cell Line," <i>European Journal of Oral Sciences</i> , 106(Supplement 1): 260-266 (1998)		
	C V	HEERSCHE et al., "Changes in Expression of Alpha 1 Type I Collagen and Osteocalcin mRNA in Osteoblasts and Odontoblasts at Different Stages of Maturity as Shown by In Situ Hybridization," <i>Proceedings of the Finnish Dental Society</i> , 88(Supp 1): 173-182 (1992)		
	C W	HEINONEN et al., "A New and Convenient Colorimetric Determination of Inorganic Orthophosphate and Its Application to the Assay of Inorganic Pyrophosphatase," <i>Analytical Biochemistry; An International Journal of Analytical and Preparative Methods</i> , (Kaplan et al.), 313-317 (Academic Press 1981)		
	C X	HIGUCHI et al., "Continuous Inhibition of MAPK Signaling Promotes the Early Osteoblastic differentiation and Mineralization of the Extracellular Matrix," <i>Journal of Bone and Mineral Research</i> , 17(10): 1785-1794 (2002)		
	C Y	HIRATA et al., "Transplantation of Skin Fibroblasts Expressing BMP-2 Promotes Bone Repair More Effectively than those Expressing Runx2," <i>Bone</i> , 32(5): 502-512 (May 2003)		
	C Z	HOWELL et al., "A Phase I/II Clinical Trial to Evaluate a Combination of Recombinant Human Insulin-Like Growth Factor-I in Patients with Periodontal Disease," <i>Journal of Periodontology</i> , 68(12): 1186-1193 (December 1997)		
	D A	HUNTER et al., "Nucleation and Inhibition of Hydroxyapatite Formation by Mineralized Tissue Proteins," <i>Biochemical Journal</i> , 317(Part 1): 59-64 (July 1, 1996)		
	D B	HYNES et al., "Contact and Adhesive Specificities in the Associations, Migrations, and Targeting of Cells and Axons," <i>Cell</i> , 68: 303-322 (January 24, 1992)		
	D C	HYNES et al., "Integrins: Versatility, Modulation, and Signaling in Cell Adhesion," <i>Cell</i> , 69: 11-25 (April 3, 1992)		
	D D	ISHIDA et al., "Cell Adhesion Aside From Integrin System can Abrogate Anoikis in Rat Liver Cells by Down-Regulation of FasL Expression, Not by Activation of PI-3K/Akt and ERK Signaling Pathway," <i>Biochemical and Biophysical Research Communications</i> , 300: 201-208 (2003)		
	D E	JAISWAL et al., "Osteogenic Differentiation of Purified, Culture-Expanded Human Mesenchymal Stem Cells In Vitro," <i>Journal of Cellular Biochemistry</i> , 64(2): 295-312 (February 1997)		
	D F	JAKOBY, "Enzyme Purification and Related Techniques," <i>Methods in Enzymology</i> , XXIII: 1-648 (Colowick et al., eds.) (Academic Press New York, NY 1971)		
	D G	JIKKO et al., "Collagen Integrin Receptors Regulate Early Osteoblast Differentiation Induced by BMP-2," <i>Journal of Bone and Mineral Research</i> , 14(7): 1075-1083 (July 1999)		
	D H	JOCKUSCH et al., "The Molecular Architecture of Focal Adhesions," <i>Annu. Rev. Cell Dev. Biol.</i> , 11: 379-416 (1995)		
	D I	JOHNSON et al., "Targeting of Nonexpressed Genes in Embryonic Stem Cells Via Homologous Recombination," <i>Science</i> , 245(4913): 1234-1236 (July 7, 1989)		
	D J	KARSENTY, "The Genetic Transformation of Bone Biology," <i>Genes & Development</i> , 13(23): 3037-3051 (December 1, 1999)		
	D K	KRETZSCHMAR et al., "Opposing BMP and EGF Signalling Pathways Converge on the TGF- β Family Mediator Smad1," <i>Nature</i> , 389(6651): 618-622 (October 1997)		
	D L	KUBOKI et al., "Calcium-Specific Precipitation of Dentin Phosphoprotein: A New Method of Purification and the Significance for the Mechanism of Calcification," <i>Journal of Dental Research</i> , 58(9): 1926-1932 (September 1979)		

ALL REFERENCES CONSIDERED EXCEPT WHERE LINED THROUGH. /T.S./

	D M	KULKARNI et al., "Promotion of Selective Cell Attachment by the RGD Sequence in Dentine Matrix Protein 1," <i>Archives of Oral Biology</i> , 45(6): 475-484 (June 2000)		
	D N	LAEMMLI, "Cleavage of Structural Proteins During the Assembly of the Head of Bacteriophage T4," <i>Nature</i> , 227(259): 680-685 (August 15, 1970)		
	D O	LAI et al., "Antiserotonin Properties of Neuroleptic Drugs," <i>Psychopharmacology and Biochemistry of Neurotransmitter Receptors</i> , (Yamamura et al. eds. Elsevier/North-Holland, New York, NY 1980). 347-353.		
	D P	LAI et al., "Erk Is Essential For Growth, Differentiation, Integrin Expression, and Cell Function in Human Osteoblastic Cells," <i>The Journal of Biological Chemistry</i> , 276(17): 14443-14450 (April 27, 2001)		
	D Q	LAI et al., "Signal Transductions Induced by Bone Morphogenetic Protein-2 and Transforming Growth Factor- β in Normal Human Osteoblastic Cells," <i>The Journal of Biological Chemistry</i> , 277(18): 15514-15522 (May 3, 2002)		
	D R	LEE et al., "Dentin Phosphoprotein: An Extracellular Calcium-Binding Protein," <i>Biochemistry</i> , 16(13): 2971-2979 (June 28, 1977)		
	D S	LEE et al., "Cooperativity in Calcium Ion Binding to Repetitive, Carboxylate-Serylphosphate Polypeptides and the Relationship of this Property to Dentin Mineralization," <i>International Journal of Peptide and Protein Research</i> , 16(3): 231-240 (1980)		
	D T	LEE et al., " ^{31}P Nuclear Magnetic Resonance Spectroscopic Evidence for Ternary Complex Formation of Fetal Dentin Phosphoprotein with Calcium and Inorganic Orthophosphate Ions," <i>Calcified Tissue International</i> , 35(6): 815-818 (1983)		
	D U	LEE et al., "Both the Smad and p38 MAPK Pathways Play a Crucial Role in Runx2 Expression Following Induction by Transforming Growth Factor- β and Bone Morphogenetic Protein," <i>Oncogene</i> , 21: 7156-7163 (2002)		
	D V	LEE et al., "BMP-2 Induced Osterix Expression is Mediated by Dlx5 But is Independent of Punx2," <i>Biochemical and Biophysical Research Communications</i> , 309: 689-694 (2003)		
	D W	LEMAITRE et al., "Specific Antiviral Activity of a Poly(L-lysine)-Conjugated Oligodeoxyribonucleotide Sequence Complementary to Vesicular Stomatitis Virus N Protein mRNA Initiation Site," <i>Proc. Natl. Acad. Sci. USA</i> , 84(1): 648-652 (January 1987)		
	D X	LI et al., "On the State of Anionic Groups of Demineralized Matrices of Bone and Dentine," <i>Calcified Tissue Research</i> , 22: 275-284 (1977)		
	D Y	LINDE et al., "Noncollagenous Proteins of Dentin: A Re-Examination of Proteins From Rat Incisor Dentin Utilizing Techniques to Avoid Artifacts," <i>The Journal of Biological Chemistry</i> , 255(12): 5931-5942 (June 25, 1980)		
	D Z	LINDE et al., "Mineral Induction by Polyanionic Dentin and Bone Proteins at Physiological Ionic Conditions," <i>Connective Tissue Research</i> , 21(1-4): 197-203 (1989)		
	E A	LIU et al., "Simultaneous Detection of Multiple Bone-Related mRNAs and Protein Expression During Osteoblast Differentiation: Polymerase Chain Reaction and Immunocytochemical Studies at the Single Cell Level," <i>Developmental Biology</i> , 166(1): 220-234 (November 1994)		
	E B	LUKASHEV et al., "ECM Signalling: Orchestrating Cell Behaviour and Misbehaviour," <i>Trends in Cell Biology</i> , 8: 437-441 (November 1998)		
	E C	MACDOUGALL et al., "Production and Characterization of Antibodies Against Murine Dentine Phosphoprotein," <i>The Biochemical Journal</i> , 232(2): 493-500 (December 1, 1985)		
	E D	MACDOUGALL et al. "Dentin Phosphoprotein and Dentin Sialoprotein Are Cleavage Products Expressed from a Single Transcript Coded by a Gene on Human Chromosome 4," <i>The Journal of Biological Chemistry</i> , 272(2): 835-842 (January 10, 1997)		
	E E	MACHWATE et al., "Temporal Variation of c-Fos Proto-Oncogene Expression During Osteoblast Differentiation and Osteogenesis in Developing Rat Bone," <i>Journal of Cellular Biochemistry</i> , 57: 62-70 (1995)		
	E F	MAJESKA et al., "Maintenance of Parathyroid Hormone Response in Clonal Rat Osteosarcoma Lines," <i>Experimental Cell Research</i> , 111(2): 465-468 (1978)		
	E G	MANSOUR et al., "Disruption of the Proto-Oncogene int-2 in Mouse Embryo-Derived Stem Cells: A General Strategy For Targeting Mutations to Non-Selectable Genes," <i>Nature</i> , 336(6197): 348-352 (November 24, 1988)		
	E H	MARK et al., "44-kDa Bone Phosphoprotein (Osteopontin) Antigenicity at Ectopic Sites in Newborn Rats: Kidney and Nervous Tissues," <i>Cell and Tissue Research</i> , 251(1): 23-30 (1988)		
	E I	MASSAGUE, "Integration of Smad and MAPK Pathways: A Link and a Linker Revisited," <i>Genes & Development</i> , 17(24): 2993-2997 (December 15, 2003)		

ALL REFERENCES CONSIDERED EXCEPT THOSE LINED THROUGH / T.S./

	E J	MCCOMB et al., <i>Alkaline Phosphates</i> , (McComb et al., eds.), (Plenum Press New York, NY 1979)		
	E K	MCKEE et al., "Ultrastructural Immunodetection of Osteopontin and Osteocalcin as Major Matrix Components of Renal," <i>Journal of Bone and Mineral Research</i> , 10(12): 1913-1929 (December 1995)		
	E L	MELCHER, "On the Repair Potential of Periodontal Tissues," <i>Journal of Periodontology</i> , 47(5): 256-260 (May 1976)		
	E M	MIZUNO et al., "Type I Collagen-Induced Osteoblastic Differentiation of Bone-Marrow Cells Mediated by Collagen- α 2 β 1 Integrin Interaction," <i>Journal of Cellular Physiology</i> , 184(2): 207-213 (August 2000)		
	E N	MORENO et al., "Adsorption of Molecules of Biological Interest onto Hydroxyapatite," <i>Calcified Tissue International</i> , 36: 48-59 (1984)		
	E O	MUNRO et al., "A C-Terminal Signal Prevents Secretion of Luminal ER Proteins," <i>Cell</i> , 48(5): 899-907 (March 13, 1987)		
	E P	NARAYANAN et al., "Differentiation of Embryonic Mesenchymal Cells to Odontoblast-Like Cells By Overexpression of Dentin Matrix Protein 1," <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 98(8): 4516-4521 (April 10, 2001)		
	E Q	NAWROT et al., "Dental Phosphoprotein-Induced Formation of Hydroxylapatite During in Vitro Synthesis of Amorphous Calcium Phosphate," 15(16): 3445-3449 (August 10, 1976)		
	E R	NCBI, "Dentin Matrix Protein 3; DSPP; DMP3 [Mus Musculus]," Database Entrez-Protein, Accession No. AAD42781 (July 6, 1999).		
	E S	NCBI, "Dentin Sialophosphoprotein; Dentin Phosphophoryn; Dentinogenesis Imperfecta 1 [Homo Sapiens]," Database Entrez-Protein, Accession No. NP_055023 (Apr. 6, 2003)		
	E T	NCBI, "Homo Sapiens Dentin Sialophosphoprotein (DSPP), mRNA," Database Entrez-Nucleotide, Accession No. NM_014208 (Apr. 6, 2003)		
	E U	NCBI "Mus Musculus Dentin Matrix Protein 3 Gene, Complete Cds.," Database Entrez-Nucleotide, Accession No. AF135799 (Jul. 6, 1999)		
	E V	NOHE et al., "The Mode of Bone Morphogenetic Protein (BMP) Receptor Oligomerization Determines Different BMP-2 Signaling Pathways," <i>The Journal of Biological Chemistry</i> , 277(7): 5330-5338 (February 15, 2002)		
	E W	NOMURA et al., "Developmental Expression of 2ar (Osteopontin) and SPARC (Osteonectin) RNA as Revealed by In Situ Hybridization," <i>The Journal of Cell Biology</i> , 106(2): 441-450 (February 1988)		
	E X	PRINCE et al., "Isolation, Characterization, and Biosynthesis of a Phosphorylated Glycoprotein from Rat Bone," <i>The Journal of Biological Chemistry</i> , 262(2): 2900-2907 (February 25, 1987)		
	E Y	PULEO, "Dependence of Mesenchymal Cell Responses on Duration of Exposure to Bone Morphogenetic Protein-2 In Vitro," <i>Journal of Cellular Physiology</i> , 173(1): 93-101 (October 1997)		
	E Z	QIN et al., "The Expression of Dentin Sialophosphoprotein Gene in Bone," <i>Journal of Dental Research</i> , 81(6): 392-394 (June 2002)		
	F A	RENUGOPALAKRISHNAN et al., "Preliminary Studies of the Secondary Structure in Solution of Two Phosphoproteins of Chicken Bone Matrix by Circular Dichroism and Fourier Transform-Infrared Spectroscopy," <i>Calcified Tissue International</i> , 39(3): 166-170 (September 1986)		
	F B	RICHARDSON et al., "Rat Incisor Phosphoprotein," <i>The Journal of Biological Chemistry</i> , 253(22): 8042-8046 (November 25, 1978)		
	F C	RICKARD et al., "Induction of Rapid Osteoblast Differentiation in Rat Bone Marrow Stromal Cell Cultures by Dexamethasone and BMP-2," <i>Developmental Biology</i> , 161(1): 218-228 (January 1994)		
	F D	RITCHIE et al., "A Mammalian Bioistronic Transcript Encoding Two Dentin-Specific Proteins," <i>Biochemical and Biophysical Research Communications</i> , 231(2): 425-428 (February 13, 1997)		
	F E	ROBEY et al., "Structure and Molecular Regulation of Bone Matrix Proteins," <i>Journal of Bone and Mineral Research</i> , 8(Supplement 2): S483-S487 (December 1993)		
	F F	RUOSLAHTI, "RGD and Other Recognition Sequences For Integrins," <i>Annual Review of Cell and Developmental Biology</i> , 12: 697-715 (1996)		
	F G	SABSAY et al. "Domain Structure and Sequence Distribution in Dentin Phosphophoryn," <i>The Biochemical Journal</i> , 275(Part 3): 699-707 (June 15, 1991)		
	F H	SALIH et al., "Identification of the Phosphorylated Sites of Metabolically 32 P-Labeled Osteopontin from Cultured Chicken Osteoblasts," <i>The Journal of Biological Chemistry</i> , 272(21): 13966-13973 (May 23, 1997)		

ALL REFERENCES CONSIDERED EXCEPT WHERE LINED THROUGH. /T.S./

	F I	SASTRY et al., "Adhesion-Growth Factor Interactions During Differentiation: An Integrated Biological Response," <i>Developmental Biology</i> , 180(2): 455-467 (December 15, 1996)		
	F J	SCHNEIDER et al., "Osteoblast Integrin Adhesion and Signaling Regulate Mineralization," <i>Journal of Dental Research</i> , 80(6): 1540-1544 (June 2001)		
	F K	SFEIR et al., "Casein Kinase Localization in the Endoplasmic Reticulum of the ROS 17/2.8 Cell Line," <i>Journal of Bone and Mineral Research</i> , 10(4): 607-615 (April 1995)		
	F L	SFEIR et al., "The Membrane Associated Kinases Which Phosphorylate Bone and Dentin Extracellular Matrix Phosphoproteins are Isoforms of Cytosolic CKII," <i>Connective Tissue Research</i> , 35(1-4): 215-222 (1996)		
	F M	SFEIR et al., "From Mouse to Zebrafish: Dentin Matrix Proteins Genomic Characterization," <i>Chemistry and Biology of Mineralized Tissue</i> , 181-184, (Goldberg et al. eds.) (American Academy of Orthopaedic Surgeons, Chicago, IL 2000)		
	F N	SHI et al., "The Role of Type I Collagen in the Regulation of the Osteoblast Phenotype," <i>Journal of Bone and Mineral Research</i> , 11(8): 1139-1145 (August 1996)		
	F O	SHUI et al., "Changes in Runx2/Cbfal Expression and Activity During Osteoblastic Differentiation of Human Bone Marrow Stromal Cells," <i>Journal of Bone and Mineral Research</i> , 18(2): 213-221 (February 2003)		
	F P	SRIVATSA et al., "Increased Cellular Expression of Matrix Proteins That Regulate Mineralization is Associated with Calcification of native Human and Porcine Xenograft Bioprosthetic Heart Valves," <i>The Journal of Clinical Investigation</i> , 99(5): 996-1009 (March 1997)		
	F Q	STENBERG et al., "Structural Analysis of the Major Immediate Early Gene of Human Cytomegalovirus," <i>Journal of Virology</i> , 49(1): 190-199 (January 1984)		
	F R	STETLER-STEVENSON et al., "Bovine Dentin Phosphophoryn: Composition and Molecular Weight," <i>Biochemistry</i> , 22(18): 4326-4335 (1983)		
	F S	SUDO et al., "In Vitro Differentiation and Calcification in a New Clonal Osteogenic Cell Line Derived from Newborn Mouse Calvaria," <i>The Journal of Cell Biology</i> , 96(1): 191-198 (January 1983)		
	F T	SUN et al., "Expression of Dentin Sialoprotein (DSP) and Other Molecular Determinants by a New Cell Line from Dental Papillae, MDPC-23," <i>Connective Tissue Research</i> , 37(3-4): 251-261 (1998)		
	F U	TERMINE et al., "Mineral and Collagen-Binding Proteins of Fetal Calf Bone," <i>The Journal of Biological Chemistry</i> 256(20): 10403-10408 (October 25, 1981)		
	F V	TERMINE et al., "Osteonectin, A Bone-Specific Protein Linking Mineral to Collagen," <i>Cell</i> , 26(Part 1): 99-105 (October 1981)		
	F W	THOMSEN et al., "Promoter-Regulatory Region of the Major Immediate Early Gene of Human Cytomegalovirus," <i>Proc. Natl. Acad. Sci. USA</i> , 81(3): 659-663 (February 1984)		
	F X	TRAUB et al., "Dentin Phosphophoryn Binding to Collagen Fibrils," <i>Matrix</i> 12(3): 197-201 (1992)		
	F Y	TRIFFITT, "The Special Proteins of Bone Tissue," <i>Clinical Science</i> , 72(4): 399-408 (1987)		
	F Z	TRISSEL, "Intravenous Infusion Solutions," <i>Handbook on Injectable Drugs</i> , (4 th Edition, American Society of Hospital Pharmacists) 622-646 (1986)		
	G A	VEIS et al., "The Phosphoprotein of the Dentin Matrix," <i>Biochemistry</i> , 6(8): 2409-2416 (August 1967)		
	G B	VEIS et al., "Phosphorylation of the Proteins of the Extracellular Matrix of Mineralized Tissues," <i>Critical Reviews in Oral Biology & Medicine</i> , 8(4): 360-379 (1997)		
	G C	VEIS et al., "Non-Collagenous Proteins of Bone and Dentin Extracellular Matrix and Their Role in Organized Mineral Deposition," <i>Calcium-Binding Proteins and Calcium Function</i> , 409-418 (Wasserman et al., Eds. North-Holland, New York, NY. 1997)		
	G D	VEIS et al., "Properties of the (DSS) _n Triplet Repeat Domain of Rat Dentin Phosphophoryn," <i>Eur. J. Oral Sci.</i> , 106(Supp 1): 234-238 (1998)		
	G E	VEIS et al., "Mineral-Related Proteins of Sea Urchin Teeth: Lytechinus Variegatus," <i>Microscopy Research and Technique</i> , 59: 342-351 (2002)		
	G F	WADHWA et al., "Receptor Mediated Glycotargeting," <i>Journal of Drug Targeting</i> , 3: 111-127 (1995)		
	G G	WALLWORK et al., "Binding of Dentin Noncollagenous Matrix Proteins to Biological Mineral Crystals: An Atomic Force Microscopy Study," <i>Calcified Tissue International</i> , 71: 249-255 (2002)		
	G H	WANG et al., "Recombinant Human Bone Morphogenetic Protein Induces Bone Formation," <i>Proc. Natl. Acad. Sci. USA</i> , 87(6): 2220-2224 (March 1990)		

ALL REFERENCES CONSIDERED EXCEPT WHERE LINED THROUGH. /T.S./

	G I	WANG et al., "Reciprocal Interactions Between $\beta 1$ -Integrin and Epidermal Growth Factor Receptor in Three-Dimensional Basement Membrane Breast Cultures: A Different Perspective In Epithelial Biology," <i>Proc. Natl. Acad. Sci. USA</i> 95(25): 14821-14826 (December 1998)		
	G J	WEINSTOCK et al., "Radioautographic Visualization of the Deposition of a Phosphoprotein at the Mineralization Front in the Dentin of the Rat Incisor," <i>The Journal of Cell Biology</i> , 56(3): 838-845 (1973)		
	G K	WHYTE, "Hypophosphatasia and the Role of Alkaline Phosphatase in Skeletal Mineralization," <i>Endocrine Reviews</i> , 15(4): 439-461 (August 1994)		
	G L	WILLIS, "The Determination of Metals in Blood Serum by Atomic Absorption Spectroscopy - I Calcium," <i>Spectrochimica Acta</i> , 16: 259-272 (1960)		
	G M	WOZNEY et al., "Novel Regulators of Bone Formation: Molecular Clones and Activities," <i>Science</i> , 242(4885): 1528-1534 (December 16, 1988)		
	G N	WU et al., "Recombinant DNA," <i>Methods in Enzymology</i> , 153(D): 3-622 (Abelson et al., eds.) (Academic Press San Diego, CA, 1987)		
	G O	WU et al., "The in Vitro Phosphorylation of the Native Rat Incisor Dentin Phosphophoryns," <i>The Journal of Biological Chemistry</i> , 267(23): 16588-16594 (August 15, 1992)		
	G P	WU et al., "Integrin-Linked Protein Kinase Regulates Fibronectin Matrix Assembly, E-Cadherin Expression, and Tumorigenicity," <i>The Journal of Biological Chemistry</i> 273(1): 528-536 (January 2, 1998)		
	G Q	XIAO et al., "MAPK Pathways Activate and Phosphorylate the Osteoblast-Specific Transcription Factor, Cbfa1," <i>The Journal of Biological Chemistry</i> , 275(6): 4453-4459 (February 11, 2000)		
	G R	XIAO et al., "Bone Morphogenetic Proteins, Extracellular Matrix, and Mitogen-Activated Protein Kinase Signaling Pathways Are Required for Osteoblast-Specific Gene Expression and Differentiation in MC3T3-E1 Cells," <i>Journal of Bone and Mineral Research</i> , 17(1): 101-110 (January 2002)		
	G S	XIAO et al., "Fibroblast Growth Factor 2 Induction of the Osteocalcin Gene Requires MAPK Activity and Phosphorylation of the Osteoblast Transcription Factor, Cbfa1/Runx2," <i>The Journal of Biological Chemistry</i> , 277(39): 36181-36187 (September 27, 2002)		
	G T	YAMADA et al., "Integrin Transmembrane Signaling and Cytoskeletal Control," <i>Current Opinion in Cell Biology</i> , 7(5): 681-689 (October 1995)		
	G U	YOUNG et al., "Structure, Expression, and Regulation of the Major Noncollagenous Matrix Proteins of Bone," <i>Clinical Orthopaedics and Related Research</i> , 1992(281): 275-294 (Urist et al. eds.)		
	G V	ZAMIR et al., "Molecular Diversity of Cell-Matrix Adhesions," <i>Journal of Cell Science</i> , 112(11): 1655-1669 (June 1999)		
	G W	ZANETTI et al., "Ca ²⁺ -Binding Studies of the Phosphoprotein from Rat-Incisor Dentine," <i>Eur. J. Biochem</i> , 113(3): 541-545 (January 1981)		
	G X	ZHANG et al., "Assembly of the PINCH-ILK-CH-ILKBP Complex Precedes and Is Essential for Localization of Each Component to Cell-Matrix Adhesion Sites," <i>Journal of Cell Science</i> , 115(24): 4777-4786 (December 15, 2002)		
	G Y	ZIJLSTRA et al., "Germ-Line Transmission of a Disrupted β_2 -Microglobulin Gene Produced by Homologous Recombination in Embryonic Stem Cells," <i>Nature</i> , 342(6248): 435-438 (November 23, 1989)		
	G Z	International Search Report dated March 17, 2005 in PCT/US2004/027076		
	H A	International Preliminary Report on Patentability dated February 21, 2006 for PCT/US2004/027076		

Examiner Signature	/Tekchand Saidha/	Date Considered	09/11/2008
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* A concise statement of relevance is being submitted in lieu of a translation. 37 CFR 1.98(a)(3).

+ An English-language equivalent/patent, or an English-language abstract, or an English-language version of the search report or action by a foreign patent office in a counterpart foreign application indicating the degree of relevance found by the foreign office is being submitted in lieu of a concise explanation of relevance under 37 CFR 1.98(a)(3).

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